

Title (en)

ELECTROLYTE FOR LITHIUM METAL SECONDARY BATTERY

Title (de)

ELEKTROLYT FÜR LITHIUMMETALLSEKUNDÄRBATTERIE

Title (fr)

ÉLECTROLYTE POUR BATTERIE SECONDAIRE AU MÉTAL LITHIUM

Publication

**EP 4040561 A1 20220810 (EN)**

Application

**EP 20904047 A 20201030**

Priority

- KR 20190170942 A 20191219
- KR 20200141979 A 20201029
- KR 2020015047 W 20201030

Abstract (en)

Provided is an electrolyte for a lithium metal secondary battery. When the electrolyte of the present invention is applied to a secondary battery including a lithium metal as a negative electrode active material, it may exhibit fewer side reactions and excellent stability, thereby improving lifespan characteristics and high rate charging performance of the battery.

IPC 8 full level

**H01M 10/0569** (2010.01); **H01M 10/052** (2010.01); **H01M 10/0567** (2010.01); **H01M 10/0568** (2010.01)

CPC (source: EP US)

**H01M 4/382** (2013.01 - EP US); **H01M 10/052** (2013.01 - EP); **H01M 10/0568** (2013.01 - EP US); **H01M 10/0569** (2013.01 - EP US); **H01M 50/46** (2021.01 - US); **H01M 2004/027** (2013.01 - US); **H01M 2300/0034** (2013.01 - EP); **H01M 2300/0037** (2013.01 - US); **H01M 2300/004** (2013.01 - EP); **Y02E 60/10** (2013.01 - EP)

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**EP 4040561 A1 20220810**; **EP 4040561 A4 20230802**; CN 114730920 A 20220708; JP 2023510125 A 20230313; JP 7508138 B2 20240701; US 2022367916 A1 20221117; WO 2021125546 A1 20210624

DOCDB simple family (application)

**EP 20904047 A 20201030**; CN 202080080978 A 20201030; JP 2022537796 A 20201030; KR 2020015047 W 20201030; US 202017772062 A 20201030